
North America's Leader in Hazardous Material Information Management
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Phone (800) 451-8346 Fax (760) 602-8888

MSDS PRODUCT INFORMATION

Date: 10/07/2005
To: MSDS Requester
From: 3E Company
Subject: The MSDS you have requested

☐ MSDS NOT REQUIRED

In response to your request for a Material Safety Data Sheet, according to the OSHA Hazard Communication Standard (Right-to-Know), the following item is an article. Articles are defined in 29 CFR 1910.1200(c). Products such as Drugs, cosmetics, food, or alcoholic beverages, wood or wood products, and tobacco or tobacco products, as defined in 29 CFR 1910.1200(b)(6), are exempt from the Hazard Communication Standard. Items that are considered articles, as defined in 29 CFR 1910.1200(c), are also exempt from this Standard. Therefore, the manufacturer is not required to provide an MSDS for this product.

☒ MSDS DISCONTINUED PRODUCT

In response to your request for a Material Safety Data Sheet, the manufacturer has discontinued the product listed below. The MSDS Attached is the most current version, or an MSDS is no longer available.

☐ MSDS BEST COPY AVAILABLE

The MSDS attached is the best copy available from the manufacturer.

☐ MANUFACTURER NO LONGER IN BUSINESS

In response to your request for a Material Safety Data Sheet, a current MSDS could not be obtained for this product. It has been determined that the manufacturer listed below is no longer in business. A current address and phone number could not be located.

Manufacturer: James Hardie Gypsum

Product Name: Hardirock which Includes: Regular Core, Fire X, Super Fire X, (DISCONTINUED)



**James Hardie
Gypsum**

5931 East Marginal Way S. • Seattle, Washington 98134
Emergency Phone: 206-763-1441

HCR 66033, Box 2900 • Las Vegas, Nevada 89124
Emergency Phone: 702-875-4111

794 Hwy. 369 North • Nashville, Arkansas 71852
Emergency Phone: 870-845-7131

PRODUCT IDENTIFICATION

GENERIC NAME: Gypsum Board
TRADE NAME: Hardirock which includes:
Regular Core, Fire X, Max * C*,
Waterguard, Soffit Board, Sheathing,
Shaftliner, HD Ceiling Board and
Veneer Base.
CHEMICAL NAME: Calcium Sulfate Dihydrate
CAS NUMBER: 10101-41-4 and 13397-24-5
FORMULA: $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$

PHYSICAL DATA

SOLUBILITY IN WATER: Less than 3 grams/liter
SPECIFIC GRAVITY: 0.6 - 0.75
APPEARANCE AND ODOR: White or light brown core
encased in manila, gray, tan,
green or blue paper; no odor.

FIRE AND EXPLOSION DATA

Products are noncombustible and nonexplosive.
Surface burning characteristics when tested in accordance with
ASTM E 84:

Flame Spread	<25
Smoke Developed	<25

REACTIVITY

STABILITY: Products are stable.
HAZARDOUS POLYMERIZATION: None.
MOISTURE: Prolonged or repeated contact with moisture will cause deterioration of the core.

PRECAUTIONS FOR SAFE HANDLING AND USE

1. Avoid creating or breathing dust.
2. When sawing, sanding, drilling or abrading, always take the following precautions:
 - wear a NIOSH approved dust mask,
 - maintain adequate ventilation and air circulation,
 - warn others in the area,
 - use a NIOSH/MSHA approved respirator when dust levels exceed the permissible exposure limit (PEL),
 - wear safety glasses, goggles or a face shield as necessary for eye protection.
3. Clean up spilled dry material by shoveling, sweeping, or vacuuming.
4. Dispose in accordance with federal, state and local regulations.

HEALTH HAZARD WARNING

Risk Summary

Silica: Trace amounts of crystalline silica may be found as a naturally occurring ingredient in the gypsum ore that is used to manufacture gypsum boards. Gypsum boards do not release respirable dust in their installed state, and therefore, do not present any known health hazards as such. However, drilling, sawing, sanding or otherwise abrading the products may generate not only nuisance dust but also very small quantities of respirable silica dust.

Fiberglass: Some gypsum boards such as fire resistant and thin core products (less than 3/8" thick) have fiberglass added to the formulation. Fiberglass adds strength without increasing combustibility. As with silica, respirable dust containing fiberglass may be released by drilling, sawing, sanding or otherwise abrading gypsum boards.

Primary Routes of Entry

Inhalation and contact with eyes.

Acute Effects

Failure to follow safe handling procedures when using this product may generate dust levels above the PELs.

Inhalation:	Excessive exposure to dust from cutting, sanding, drilling or other forms of abrading may cause coughing or other upper respiratory irritation.
Eye Contact:	Exposure to dust may cause redness and irritation.

Chronic Effects

Proposition 65 Warning: Respirable crystalline silica is known by the State of California to cause cancer.

International Agency for Research on Cancer (IARC) has determined that there is sufficient evidence to establish that inhaled crystalline silica is a carcinogen to humans.

The National Toxicology Program (NTP) has concluded that respirable crystalline silica may reasonably be found to constitute a carcinogenic risk.

OSHA has not made any finding regarding the carcinogenicity of respirable crystalline silica.

Medical research has found no significant increase in cancer or other chronic health effects from exposure to fiberglass. IARC considers fiberglass filament as not classifiable as to human carcinogenicity. It is not considered a carcinogen by the NTP and OSHA. Fiberglass is listed on the California Director's List of Hazardous Substances as a mechanical irritant.

Medical Conditions Generally Aggravated By Exposure

Pre-existing upper respiratory and lung disease, such as, but not limited to bronchitis, emphysema and asthma.

First Aid Emergency Procedures

Inhalation:	Remove to fresh air.
Skin:	None.
Eyes:	Irrigate with generous quantities of water. Consult physician if irritation continues.

PRODUCT INGREDIENTS

Material	Percent	TLV mg/m ³	PEL mg/m ³	CAS Number
Calcium sulfate dihydrate	>80	10	15(T)5(R)	10101-41-4
Recycled paper (cellulose)	<15	10	15(T)5(R)	None found
Acid modified starch	<15	10	15(T)5(R)	65999-53-6
Sulfate of potash	<10	10	15(T)5(R)	7778-80-5
Inorganic borates	<5	10	15(T)5(R)	10043-35-3
Naphthalenesulfonic acid formaldehyde polymer sodium salt	<1	N/E	N/E	9084-06-4
Sodium sulfata	<1	N/E	N/E	7757-82-6
Crystalline Silica	*	0.1	30mg/m ³	14808-60-7
			% SiO ₂ + 2	(T)
			10mg/m ³	
			% SiO ₂ + 2	(R)
Fiberglass	<1	10(T)	15(T)5(R)	65997-17-3
Wax emulsion	<5	5(T)	15(T)5(R)	8002-74-2
Methyl hydrogen siloxane	<1	N/E	N/E	N/E
Vermiculite	<5	0.1(R)	30mg/m ³	1318-00-9
			% SiO ₂ + 2	(T)
			10mg/m ³	
			% SiO ₂ + 2	(R)

(T) = Total

(R) = Respirable

*Trace amounts of naturally occurring crystalline (quartz) silica may be found in gypsum (calcium sulfate dihydrate).

Note: As of the date of preparation of this document, the foregoing information is believed to be accurate.
Please check the currency of this MSDS by contacting James Hardie Technical Services 9 58

For Additional Product Information Call James Hardie Gypsum Technical Services Department, Seattle, Washington 1-800-346-3537 - Web Site: www.Hardie.com